ELSEVIER

Volume 538, Numbers 1–2, 20 June 1997

Journal of Organometallic Chemistry

Contents

Regular Papers

Synthesis and some properties of bis- and tetrakis(triphenylstannyl)tetrathiafulvalenes and tetraiodotetrathiafulvalene
M. Sato and M.-a. Sensui 1

Structure and stereodynamic relationships in (η^4-diene)ML_3 systems
P. McArdle, J. Skelton and A.R. Manning 9

FT-IR study of the gas phase thermolysis of trimethylsilyl acetate
P.G. Harrison and A. Torr 19

Reactions of $RuHCl(CO)(PPh_3)_3$ with 1-alkynols. Preparation and reactivity of hydroxyvinyl complexes
G. Jia, W.F. Wu, R.C.Y. Yeung and H. Xia 31

Preparation and characterization of the rhenium silyl esters (η^5-C_5Me_5)(CO)(NO)ReC(O)OSiR_3 (SiR_3 = $SiMe_2Ph$, $SiEt_3$)
M.D.B. Cavanaugh, S.M. Tetrick, C.J. Masi and A.R. Cutler 41

Synthesis of the rhenium allyl chloride complex $Cp^*Re(\eta^3$-$C_3H_5)$(CO)Cl and reactions to give hydrido, phenyl and alkyl derivatives
Y.-X. He and D. Sutton 49

Synthesis and spectroscopic characterisation of *closo*-$Ru_4(CO)_{12}(\mu_4,\eta^2$-$HC_2Ph)$ and *closo*-$Ru_4(CO)_9(\mu$-$CO)_2(\mu_4,\eta^2$-$HC_2Ph)(\mu_4$-Se). Crystal structure of *closo*-$Ru_4(CO)_{12}(\mu_4,\eta^2$-$HC_2Ph)$
P. Mathur, S. Ghosh, Md.M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold and G.P.A. Yap 57

Synthesis, crystal structures and some properties of dimethylsilylene-bridged ansa-permethyltitanocene [Ti(IV), (III) and (II)] complexes
V. Varga, J. Hiller, R. Gyepes, M. Polášek, P. Sedmera, U. Thewalt and K. Mach 63

Remote diastereoselective control via organoiron methodology: stereoselective preparation of 4,6-, 5,7- and 6,8-dien-2-ol (tricarbonyl)iron complexes
P.T. Bell, B. Dasgupta and W.A. Donaldson 75

Propylthiotetramethylcyclopentadienyl complexes of iron, titanium and zirconium. Structural characterization of $[\eta^5$-$C_5Me_4SCH_2CH_2CH_3]_2TiCl_2$
R. Broussier, C. Bourdon, O. Blacque, A. Vallat, M.M. Kubicki and B. Gautheron 83

Directed semi-hydrogenation of triple bonds in diene tricarbonyliron complexes
M. Laabassi, P. Mosset and R. Grée 91

Synthesis and characterisation of nitrile complexes of iron
A.V. George, L.D. Field, E.Y. Malouf, A.E.D. McQueen, S.R. Pike, G.R. Purches, T.W. Hambley, I.E. Buys, A.H. White, D.C.R. Hockless and B.W. Skelton 101

Ansa-bis(cyclopentadienyl) complexes of niobium(III) and niobium(IV); X-ray structures of [Nb(η-C_5H_4-CMe_2-η-C_5H_4)(η^2-BH_4)] and [Nb(η-C_5H_4-CMe_2-η-C_5H_4)(H)PMe_3]
N.J. Bailey, M.L.H. Green, M.A. Leech, J.F. Saunders and H.M. Tidswell 111

Trisimidazole complexes of ruthenium and osmium
S. Elgafi, L.D. Field, B.A. Messerle, I.E. Buys and T.W. Hambley 119

Synthesis and characterisation of organoarsenic(III) xanthates and dithiocarbamates. X-ray crystal structures of $RAs(S_2CNEt_2)_2$, R = Me and Ph
S.S. Garje, V.K. Jain and E.R.T. Tiekink 129

Synthese und Eigenschaften chlorierter und bromierter Aryltrisilane und Aryltetrasilane
K. Hassler und W. Köll 135

Elsevier Science S.A.

Aryltrisilane $Si_3Ar_nH_{8-n}$ (Ar = Ph, p-Tol; $n = 2–7$)
K. Hassler and W. Köll 145

Photoactivated hydrosilation curing of a ceramic precursor: crosslinking and pyrolysis of branched oligo[(methylsilylene)methylene]
B.E. Fry, A. Guo and D.C. Neckers 151

Synthese und Koordinationsverhalten $Me_2NCH_2CH_2$-funktionalisierter Metallocene von Titan, Vanadium und Chrom
M. Enders, K. Köhler, W. Frosch, H. Pritzkow und H. Lang 163

Stereochemically non-rigid transition metal complexes of 2,6-bis[(1-phenylimino)ethyl]pyridine (BIP). Part 2. Dynamic NMR studies of *fac*-$[ReX(CO)_3(BIP)]$ (X = Cl, Br, or I). Crystal structure of *fac*-$[ReBr(CO)_3(BIP)]$
K.G. Orrell, A.G. Osborne, V. Šik, M. Webba da Silva, M.B. Hursthouse, D.E. Hibbs, K.M. Abdul Malik and N.G. Vassilev. 171

Synthesis and structural characterisation of a new μ_2-Te bridged complex of molybdenum with oxo and imido ligands
P. Mathur, S. Ghose, Md.M. Hossain and H. Vahrenkamp 185

Preparation and reactions of methylpalladium(II) and -platinum(II) azido complexes. The crystal structure of *trans*-$PdMe(N_3)(PMe_3)_2$ and *trans*-$PdMe[CN_4(C_6H_{11})](PMe_3)_2$
Y.-J. Kim, D.-H. Kim, J.-Y. Lee and S.-W. Lee 189

Molecular structure of π-allyl palladium(II) complex, $[Pd(\eta^3\text{-PhCHCHCHPh})\text{-}((S,S)\text{-chiraphos})]PF_6$: a novel envelope conformation of chiral C_2-symmetric diphosphine
M. Yamaguchi, M. Yabuki, T. Yamagishi, M. Kondo and S. Kitagawa 199

Multiple bonds between transition metals and main-group elements, 163. Nitrogen-donor adducts of organorhenium(VII) oxides: structural and catalytic aspects
W.A. Herrmann, F.E. Kühn, M.R. Mattner, G.R.J. Artus, M.R. Geisberger and J.D.G. Correia 203

Les bis-silanes bis-propargyliques comme précurseurs de bis(vinylidène)oxanes et oxépanes
P. Aubert et J. Pornet. 211

Hydrocarbyl derivatives of $[UCl_2\{HB(pz)_3\}_2]$: synthesis, characterization and reactivity studies towards protic substrates and ketones
M.P.C. Campello, M.J. Calhorda, Â. Domingos, A. Galvão, J.P. Leal, A. Pires de Matos and I. Santos 223

Synthesis and molecular structure of $[(t\text{-}C_4H_9C_5H_4)_2Yb(THF)_2][BPh_4] \cdot THF$ and its catalytic activity for the polymerization of styrene
F. Yuan, Q. Shen and J. Sun 241

Preliminary Communications
A-frame trinuclear complexes of platinum and palladium with a tridentate phosphine ligand. Insertion of d^{10} Pt(0) and Pd(0) fragments into a Pt–Pt σ-bond
T. Tanase, H. Takahata, H. Ukaji, M. Hasegawa and Y. Yamamoto 247

A rhodium(I) amide dimer: synthesis, structural characterisation and preliminary reactivity studies
J.-J. Brunet, J.-C. Daran, D. Neibecker and L. Rosenberg 251

Synthesis and characterization of an organometallic phosphonic acid: X-ray crystal structure of $[\eta^6\text{-}p\text{-}C_6H_4(CH_2PO_3H_2)_2]Cr(CO)_3$
R.W. Deemie, J.C. Fettinger and D.A. Knight 257

Book Reviews 261

Author Index 263

Subject Index 265

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.